

Title (en)

Staphylococcus aureus cell division gene DivIB

Title (de)

Zellteilungs-Gen DivIB von Staphylococcus aureus

Title (fr)

Gène de division cellulaire DivIB de Staphylococcus aureus

Publication

**EP 0854186 A3 20000126 (EN)**

Application

**EP 97310563 A 19971223**

Priority

- US 3458897 P 19970102
- US 82761597 A 19970409

Abstract (en)

[origin: EP0854186A2] The invention provides DivIB polypeptides and DNA (RNA) encoding such DivIB, particularly those of S. aureus, and a procedure for producing such polypeptides by recombinant techniques. Also provided are methods for utilizing such DivIB for the treatment of infection, to screen for antagonists against such DivIB, diagnostic assays for detecting disease.

IPC 1-7

**C12N 15/31**; **C07K 14/31**; **C07K 16/12**; **C12Q 1/18**; **C12Q 1/68**; **A61K 39/085**; **G01N 33/50**

IPC 8 full level

**G01N 33/53** (2006.01); **A61K 38/00** (2006.01); **A61K 39/395** (2006.01); **A61K 48/00** (2006.01); **A61P 37/00** (2006.01); **A61P 43/00** (2006.01); **C07K 14/31** (2006.01); **C07K 16/12** (2006.01); **C12N 9/00** (2006.01); **C12N 15/09** (2006.01); **C12N 15/31** (2006.01); **C12Q 1/00** (2006.01); **A61K 39/00** (2006.01)

CPC (source: EP US)

**A61P 37/00** (2018.01 - EP); **A61P 43/00** (2018.01 - EP); **C07K 14/31** (2013.01 - EP US); **A61K 39/00** (2013.01 - EP US)

Citation (search report)

- [PX] EP 0786519 A2 19970730 - HUMAN GENOME SCIENCES INC [US]
- [PX] WO 9730070 A1 19970821 - SMITHKLINE BEECHAM CORP [US], et al
- [E] EP 0870829 A2 19981014 - SMITHKLINE BEECHAM CORP [US], et al
- [DXA] HARRY EJ ET AL.: "Conservation of the 168 divIB gene in Bacillus subtilis W23 and B. licheniformis, and evidence for homology to ftsQ of Escherichia coli", GENE, vol. 147, 1994, pages 85 - 89, XP002123435
- [A] DATABASE SWISSPROT 1 November 1995 (1995-11-01), ALESSI DM ET AL.: "Cell division protein FtsZ", XP002123437
- [A] DESNOTTES J -F: "New targets and strategies for the development of antibacterial agents", TRENDS IN BIOTECHNOLOGY,GB,ELSEVIER PUBLICATIONS, CAMBRIDGE, vol. 14, no. 4, pages 134-140, XP004035799, ISSN: 0167-7799
- [PX] PUCCI M J ET AL: "Identification and characterization of cell wall-cell division gene clusters in pathogenic gram-positive cocci.", JOURNAL OF BACTERIOLOGY, (1997 SEP) 179 (17) 5632-5635, XP002915557

Cited by

JP2013507116A; CN103702684A; AU2010304915B2; EP0870829A3; US8691242B2; WO2011042681A1; WO2016051154A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0854186 A2 19980722**; **EP 0854186 A3 20000126**; JP H10313873 A 19981202; US 5955304 A 19990921

DOCDB simple family (application)

**EP 97310563 A 19971223**; JP 37036097 A 19971229; US 82761597 A 19970409